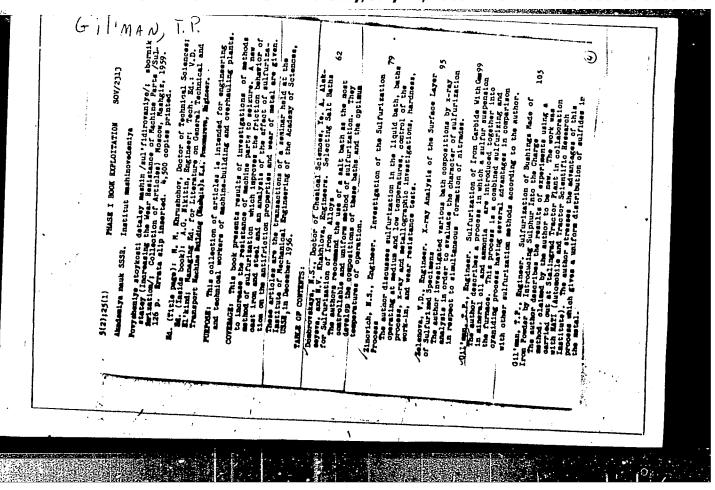
Investigation of the Physico-Chemical Processes of Sulphidation by the Dilatometric Method

results the following conclusions are arrived at: sintering at 200 to 300°C of a charge consisting of powder iron and sulphur brings about the formation of iron sulphides; this is confirmed by the changes in the dilatometric curves of the specimens and chemical analysis of powder mixtures heated to these temperatures; for obtaining sulphide films (anti-seizure coatings), sulphidation of hardened components can be effected at 180 to 200°C by combining the process of sulphidation with tempering of the components after hardening. There are 4 figures, 2 tables and 5 references, 4 of which are Soviet, 1 English.

ASSOCIATION: NATI

Iron alloys—Sintering
 Sintering—Chemical effects
 Sintering—Temperature factors
 Sulfur—Thermal effects

Card 2/2



S/191/60/000/010/015/017 B004/B060

AUTHORS:

₹.

Perlin, S. M., Gil'man, T. P., Leytes, A. Z.

TITLE:

Study of the Completeness of Hardening of Unsaturated

Polyester Resins by the Dilatometric Method

PERIODICAL:

Plasticheskiye massy, 1960, No. 10, pp. 64-68

TEXT: The authors studied the hardening degree of NH-1 (PN-1) resin by the use of different initiators and catalysts. The previously performed tests for Rockwell heat, bending strength, and water absorption showed that no clear knowledge can be obtained concerning the hardening on the basis of physicomechanical tests. An investigation was therefore conducted with a Schevenaar differential dilatometer of the firm Amsler. Dilatation curves displayed breaks with insufficient hardening of the resin. The following optimum values were obtained for the addition of initiator and catalyst: 3% cumene hydroperoxide (initiator) and 6-8% cobalt naphthenate (catalyst). At 1.5% benzoyl peroxide and 0.6% dimethyl aniline a complete hardening was attained only after repeated heating. Dilatometric curves of the following glass reinforced plastics were also taken: 1) 30% Card 1/2

Study of the Completeness of Hardening of S/191/60/000/010/015/017 Unsaturated Polyester Resins by the Dilatometric B004/B060

phenol formaldehyde resin with 70% epoxy resin and glass reglet; 2) polyester resin with glass reglet; 3) polyester resin with glass fatric; 4) polyester resin with glass mat. The hysteresis of heating and cooling curves showed that in all specimens hardening was incomplete. There are 8 figures, 4 tables, and 6 references: 2 Soviet, 2 US, and 2 German.

Card 2/2

TO SERVICE OF THE PARTY OF THE

GIL'MAN, T.P.; PERLIN, S.M.; LETTES, A.Z.

Electro consistemeter for determining the processing time, gelatinishtion, and hardening of resins. Plast.massy no.11:68-71 60.

(Resins, Synthetic)

36279 \$/069/62/024/002/004/008 B101/B110

15,6350 AUTHORS:

Zubov, P. I., Lepilkina, L. A., Cil'man, T. P.

TITLE:

Effect of lubricant and finishing materials on the internal stresses and adhesion properties of polyester coatings

PERIODICAL:

Kolloidnyy zhurnal, v. 24, no. 2, 1962, 174-177

TEXT: $\Pi H-1$ (PN-1) polyester resin films, $\sim 2200~\mu$ thick, were applied to glass parallelepipeds and polymerized at 75°C in the presence of 3% cumene hydroperoxide and 8% cobalt naphthenate dissolved in styrene. One of the glass surfaces was modified with a preparation, and the internal stress was measured optically with a self-recording instrument. Adhesion was determined from the maximum (critical) stress at which the film detached from the glass. The following modifiers were used: (1) Paraffin emulsion consisting of stearin, vaseline, and transformer oil with CO-20 (SO-20) dicyana diamine formaldehyde resin as emulgator: the film detached already after 30 min. (2)AC-1 (AS-1) disapol, a polymerization product from butyl methacrylate and methacrylamide in the presence of dibutyl sebacinate; here, and on unmodified surfaces, at lower internal stress, however, separation set in after 12 hrs. (3)M Φ -17 (MF-17) urea formaldehyde resins Card 1/3

s/069/62/024/002/004/008 B101/B110

Effect of lubricant and ...

showed better results: film adhesion to glass exceeded 12 hrs. (4) The best results were obtained with TB3-3 (PVE-3) polyvinyl acetate emulsion with and without chromolan additions (a cation-active preparation). Internal stress increased after 30-60 min but was moderated by 0.7% chromolan. Then, gradual relaxation followed. The film did not detach from the glass. Tests for the effect of film thickness on its separation from the glass yielded similar results from the different preparations: from glass modified with paraffin emulsion, a film thinner than that from unmodified glass detached, whereas with MF-17 thicker films showed good adhesion. Data are given for glass reinforced plastics with a 50% content of glass fiber: the bending strength (a) and internal stress (b) obtained with paraffin emulsion were 2200 kg/cm² and 10.8 kg/cm², respectively; with MF-17 a = 2880, b = 28.6; with AS-1 a = 2596, b = 3.8, and with PVE-3 containing 0.7% chromolan, a = 3300, b = 2.8. There are 4 figures, 1 table, and 2 Soviet references.

ASSOCIATION: Institut fizicheskoy khimii AN SSSR, Otdel polimerov (Institute of Physical Chemistry of AS USSR, Department of Polymers). Vsesoyuznyy nauchno-issledovatel'skiy proyektnyy institut ugol'nogo mashinostroyeniya, Moskva (All-Union Scientific Research, Design and Planning Institute of Coal,

Card 2/3

Effect of lubricant and ... S/069/62/024/002/004/008
SUBMITTED: April 20, 1961

Gard 3/3

S/653/61/000/000<mark>/034/051</mark> I007/I207

AUTHORS:

Perlin, S.M., Gil'man, T.P., and Leytes, A.Z.

TITLE:

Determination of hardening degree of unsaturated

polyester resins by the dilatometric method

SOURCE:

Plastmassy v mashinostroyenii i priborostroyenii. Pervaya resp. nauch.-tekh. konfer. po vopr. prim. plastmass v mashinostr. i priborostr., Kiev, 1959. Kiev, Gostekhizdat, 1961, 367-375

TEXT: The paper presents results of dilatometric determinations of series of physicomechanical properties of polyester resins by means of the differential dilatometer of the Chevenard system which yields much better results than conventional dilatometers. As was found, hardness, water-absorption and bending strength depend on the hardening degree of the resin. The dilatometric method permits suit-

Card 1/2

S/653/61/000/000/034/051 I007/1207

Determination of hardening degree...

able evaluation of the hardening degree of the above resins; it makes it also possible to distinguish between the temporary incomplete hardening and the constant incomplete hardening. The above method may also be successfully used for the determination of the hardening degree of glass-reinforced plastics, of their dimensional stability and heat resistance. There are 7 figures.

Card 2/2

KLINOV, I.Ya.; KUTSENOK, B.I.; FAERIKANT, T.L.; OIL'MAN, TS.I.

Chemically stable mastics based on a modified asbestos vinyl.

Plast.massy no.2:44-50 '61. (MIRA 14:2)

(Plastics) (Protective coatings)

18 8300 4016, 1138, 1208

S/020/61/137/003/025/030 B101/B208

AUTHORS:

Kolotyrkin, Ya. M., and Gil'man, V. A.

TITLE:

Effect of chlorine ions on the electrochemical and

corrosion behavior of zirconium

PERIODICAL:

Doklady Akademii nauk SSSR, v. 137, no. 3, 1961, 642-645

TEXT: It was found in papers by E. A. Gee, L. B. Golden, W. E. Lusby (Ref. 1, see below), D. F. Taylor (Ref. 2, see below), and L. B. Golden, I. R. Lane, W. L. Acherman (Ref. 3, see below) that zirconium may be corroded by chlorine ions under certain conditions. As these papers do not permit exact conclusions on the causes of this behavior of zirconium, a more thorough investigation has now been made of the conditions, under which Zr is corroded by chlorine ions. The dependence of the dissolution rate of Zr on the potential was determined by a potentiostatic method described by the authors in Ref. 7 (ZhFKh, 30, 1990, (1956)) and Ref. 8 (DAN, 114, 1265 (1957)). The experiments were performed in 1.0; 0.1; 0.01 N HCl; 1.0 N H₂SO₄, 1.0 N KBr; 1.0 N KI. Pure zirconium (99.8%)

Card 1/5

Effect of chlorine ions on the ...

S/020/61/137/003/025/030 B101/B208

was used as electrode. The liquid reagents were purified by distillation. The solutions were saturated with N₂ which was bubbled through also during the measurement. Fig. 1 shows the result of the potentiostatic measurements. In H₂SO₄, Zr was passive in the entire potential range studied. In the presence of halogen compounds, however, Zr is dissolved when a critical potential $\varphi_{\rm cr}$ is attained, $\varphi_{\rm cr}$ remaining constant irrespective of current density. The following results were obtained in galvanostatic measurements: Temporary positive and negative shifts of the potential are accomplished by increasing and reducing the current density, respectively. The potential always returns to the value $\varphi_{\rm cr}$. Measurement of the charge curves also indicated that at first Zr is polarized to more positive values than $\varphi_{\rm cr}$. At a constant concentration of Cl⁻, the deviation of the potential from $\varphi_{\rm cr}$ increases with the current density. At constant current density, the deviation increases with decreasing Cl⁻ concentration. Addition of Fe³⁺ exerted the same effect as application of anodic polarization. $\varphi_{\rm cr}$ was attained at a certain Card 2/5

Effect of chlorine ions on the ...

S/020/61/137/003/025/030 B101/B208

concentration of the iron salt. Further increase of the concentration of Fe $^{3+}$ had no influence. It was found visually that, when $oldsymbol{arphi}_{ ext{cr}}$ is attained, an irregular corrosion occurs, which gives rise to the formation of pittings, which increases with the current density. With decreasing current density, the pittings are again partly passivated. This reversibility of the process is explained by the fact that at a certain density of the polarization current, the affinity of Zr to the halogen ion is greater than to the passivating oxygen. The passivating oxygen is displaced by the halogen ion, The irregular corrosion may be explained by the permanent nonuniform distribution of the plate current on the metal surface. The assumption that the corrosion process is retarded in time by the formation of primary complexes of the $ZrCl_n^{(4-n)+}$ type could not be experimentally confirmed. It may therefore be assumed that these complexes decompose by hydrolysis, the chlorine ions are again liberated, and thus act as catalysts of corrosion. Mention is made of N. A. Balashova and B. N. Kabanov (Ref. 15: DAN, 121, 126 (1958)) and L. V. Vanyukova (Ref. 14: DAN 59, 917 (1948)).

Card 3/5

21571 S/020/61/137/003/025/030

Effect of chlorine ions on the ,,,

There are 3 figures and 15 references: 8 Soviet-bloc and 7 non-Soviet-bloc. The 4 references to English-language publications read as follows: E. A. Gee, L. B. Golden, W. E. Lusby, Ind. and Eng. Chem. 41, 1668 (1949); D. F. Taylor, Ind. and Eng. Chem. 42, 639 (1950); L. B. Golden, I. R. Lane, W. L. Acherman, Ind. and Eng. Chem. 44, 1930 (1952); 45, 782 (1953), I. R. Lane, L. B. Golden, W. L. Acherman, Ind. and Eng. Chem. 45, 1067, (1953).

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova

(Physicochemical Institute imeni L. Ya. Karpov)

PRESENTED: October 20, 1960, by A. N. Frumkin, Academician

SUBMITTED: October 13, 1960

Card 4/5

S/020/62/143/003/026/029 B101/B144

18. 8300

AUTHORS:

Gil'man, V. A., and Kolotyrkin, Ya. M.

TITLE:

Mechanism of pitting corrosion of zirconium in halide

solutions .

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 143, no. 3, 1962, 640 - 642

TEXT: In the previous work (DAN, 137, no. 3, 642 (1960)) it as presumed theoretically that pitting corrosion of Zr in chloride solutions was a consequence of local depassivation of the metal surface by chlorine ions. This depassivation occurs when the Cl concentration reaches a ritical value, thus necessitating an induction period. This assumption was checked experimentally by measuring the time t_m (sec), which elapses after imposition of anodic polarization until the minimum ϕ_m occurs in the curve ϕ versus t. Results at various current densities and electrolyte concentrations are $(t_m$, sec):

Card 1/3

S/020/62/143/003/026/029 B101/B144

KCl

Mechanism of pitting corrosion...

ı		KBr			KC1		
i,a/cm ²	0.01 N	0.1 N	1.0 N	0.01 N	0.1 N	1.0 N	
6	1200	1080	-	1410	1290	-	
5•10 ⁻⁵	92.5	78.5	73.5	91	83.2	79•5	
5-10-4		8.3	7.7	10.0	8.0	6.7	

KCl + Na ₂ SO ₄		KC1 + Na ₂ CO ₃		
а	b	С	đ	
2545 165 15•8	327' 32.9	- 174 16.5	250 26	

Legend: (a) 0.05 N[CI] + 0.05

(b) 0.025 N [C1] + 0.075 N [S0 $_{4}^{2}$] (c) 0.05 N [C1] + 0.05 N [C0 $_{3}^{2}$] (d) 0.025 N [C1] + 0.075 N [C0 $_{3}^{2}$]

With increasing halide concentration and decreasing current density the reproducibility of the data decreases. The mean deviation was in the case of $5 \cdot 10^{-4}$ a/cm² and 0.01 N: 5 - 6%; of $5 \cdot 10^{-5} - 5 \cdot 10^{-6}$ a/cm² and 1.0 N: 18 - 23%. The zirconium specimens were treated with dilute HF. It is Card 2/3

ACCESSION NR: AP4034543

5/0020/64/155/005/1155/1158

AUTHORS: Giliman, V. A.; Koloty*rkin, Ya. M.

TITLE: The mechanism of dissolving zirconium in acid fluoride

solutions

SOURCE: AN-SSSR. Doklady*, v. 155, no. 5, 1964, 1155-1158

TOPIC TAGS: zirconium, solution mechanism, dissolution kinetics, hydrogen evolution kinetics, zirconium oxidation, rate of solution

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051671

ACC NR: AP6015293 (N) SOURCE CODE: UR/0365/66/002/003/0360/0361

AUTHOR: Gil'man, V. A.; Kolotyrkin, Ya. M.

, OB

ORG: Physicochemical Scientific Research Institute im. L. Ya. Karpov (Nauchnoissledovatel'skiy fiziko-khimicheskiy institut)

TITLE: Pitting corrosion of zirconium in perchlorate solutions

SOURCE: Zashchita metallov, v. 2, no. 3, 1966, 360-361

TOPIC TAGS: corrosion, zirconium, perchiorate, chloride

ABSTRACT: A study of zirconium corrosion in 0.1 and 1.0 N NaClO $_4$ and HClO $_4$ and also 0.3 N LiClO $_4$ showed that under spontaneous dissolution and anodic polarization conditions, zirconium is in a passive state until a certain critical potential ϕ cris reached, at which extensive pitting begins to take place. In this respect, the anodic behavior of Zr in perchlorate solutions is similar to that in chloride solutions, except for the fact that in the latter the critical pitting potential is more positive by almost one whole volt. The value of ϕ cr in perchlorate solutions is determined by the ClO $_4$ - concentration, increasing by 100 mV for a tenfold decrease of the perchlorate concentration, and, as in the case of chlorides, is independent of the solution pH or the anodic current density. Thus, halide ions are not the only ones to cause the pitting corrosion of zirconium; ClO $_4$ - ions also have this capacity (although not

Card 1/2

UDC: 620.193.01

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051

Card 2/2 6

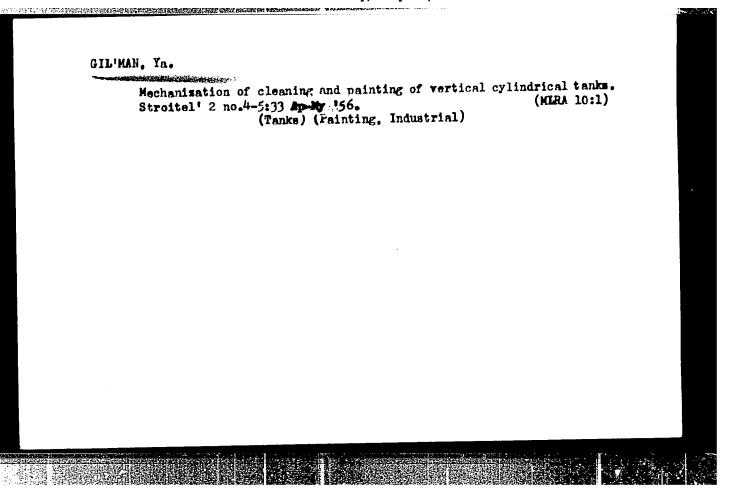
ABSTRACT: Studies of the corrosion and electrochemical behavior of zirconium under anodic polarization conditions were continued using concentrated HCl, 11.5 N. In the passive region, at potentials more negative than +0.17 v, the rate of Zr solution to Zr is independent of potential and amounts to 0.2-1.10-4 amp/cm ² . The rate of solution of Zr pre-etched in HF corresponds to the stationary anodic current density as
TITLE: Solution of zirconium in concentrated hydrochloric acid SOURCE: Zashchita metallov, v. 2, no. 4, 1966, 490-492 TOPIC TAGS: zirconium, corrosion, corrosion rate, electrochemistry, solution kinetics, chloride, induction melting, metal melting ABSTRACT: Studies of the corrosion and electrochemical behavior of zirconium under anodic polarization conditions were continued using concentrated HCl, 11.5 N. In the passive region, at potentials more negative than +0.17 v, the rate of Zr solution to Zr 4 is independent of potential and amounts to 0.2-1.10-4amp/cm2. The rate of solution of Zr pre-etched in HF corresponds to the stationary anodic current density as
FITLE: Solution of zirconium in concentrated hydrochloric acid SOURCE: Zashchita metallov, v. 2, no. 4, 1966, 490-492 FOPIC TAGS: zirconium, corrosion, corrosion rate, electrochemistry, solution kinetics, chloride, induction melting, metal melting ABSTRACT: Studies of the corrosion and electrochemical behavior of zirconium under anodic polarization conditions were continued using concentrated HCl, 11.5 N. In the passive region, at potentials more negative than +0.17 v, the rate of Zr solution to Zr is independent of potential and amounts to 0.2-1.10 map/cm. The rate of solution of Zr pre-etched in HF corresponds to the stationary anodic current density as
TOPIC TAGS: zirconium, corrosion, corrosion rate, electrochemistry, solution kinetics, chloride, induction melting, metal melting ABSTRACT: Studies of the corrosion and electrochemical behavior of zirconium under anodic polarization conditions were continued using concentrated HCl, 11.5 N. In the passive region, at potentials more negative than +0.17 v, the rate of Zr solution to Zr is independent of potential and amounts to 0.2-1.10-4amp/cm. The rate of solution of Zr pre-etched in HF corresponds to the stationary anodic current density as
TOPIC TAGS: zirconium, corrosion, corrosion rate, electrochemistry, solution kinetics, chloride, induction melting, metal melting ABSTRACT: Studies of the corrosion and electrochemical behavior of zirconium under anodic polarization conditions were continued using concentrated HCl, 11.5 N. In the passive region, at potentials more negative than +0.17 v, the rate of Zr solution to Zr is independent of potential and amounts to 0.2-1.10 map/cm. The rate of solution of Zr pre-etched in HF corresponds to the stationary anodic current density as
zirconium under anodic pola ization conditions were continued using concentrated HCl, 11.5 N. In the passive region, at potentials more negative than +0.17 v, the rate of Zr solution to Zr ⁺⁴ is independent of potential and amounts to 0.2-1.10 ⁻⁴ amp/cm ² . The rate of solution of Zr pre-etched in HF corresponds to the stationary anodic current density as
ABSTRACT: Studies of the corrosion and electrochemical behavior of zirconium under anodic polarization conditions were continued using concentrated HCl, 11.5 N. In the passive region, at potentials more negative than +0.17 v, the rate of Zr solution to Zr is independent of potential and amounts to 0.2-1.10 map/cm². The rate of solution of Zr pre-etched in HF corresponds to the stationary anodic current density as
zirconium under anodic pola ization conditions were continued using concentrated HCl, 11.5 N. In the passive region, at potentials more negative than +0.17 v, the rate of Zr solution to Zr is independent of potential and amounts to 0.2-1.10 map/cm. The rate of solution of Zr pre-etched in HF corresponds to the stationary anodic current density as
concentrated HCl, 11.5 N. In the passive region, at potentials more negative than +0.17 v, the rate of Zr solution to Zr ⁺⁴ is independent of potential and amounts to 0.2-1.10 ⁻⁴ amp/cm ² . The rate of solution of Zr pre-etched in HF corresponds to the stationary anodic current density as
negative than $+0.17$ v, the rate of Zr solution to $\rm Zr^{+4}$ is independent of potential and amounts to $0.2-1\cdot10^{-4} \rm emp/cm^2$. The rate of solution of Zr pre-etched in HF corresponds to the stationary anodic current density a
potential and amounts to $0.2-1\cdot10^{-4}$ amp/cm ² . The rate of solution of Zr pre-etched in HF corresponds to the stationary anodic current density a
the edges material. To the second Country amount current unity a
the given potential. In the case of Zr with atmospheric oxide films,
the initial average rate of solution is an order higher than the anodic current through the system, but becomes somewhat lower and almost
constant with time. The proposed mechanism for the solution of passive
Card 1/2 UDC: 620.193.41:669.29

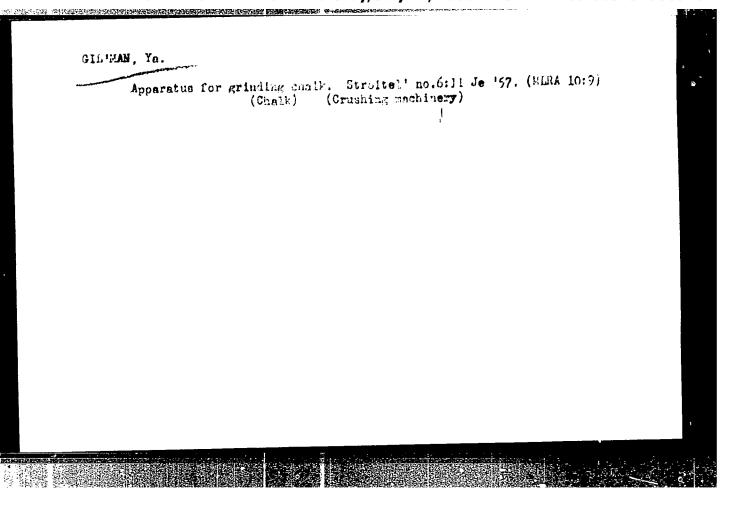
ACC NR: AP6025725

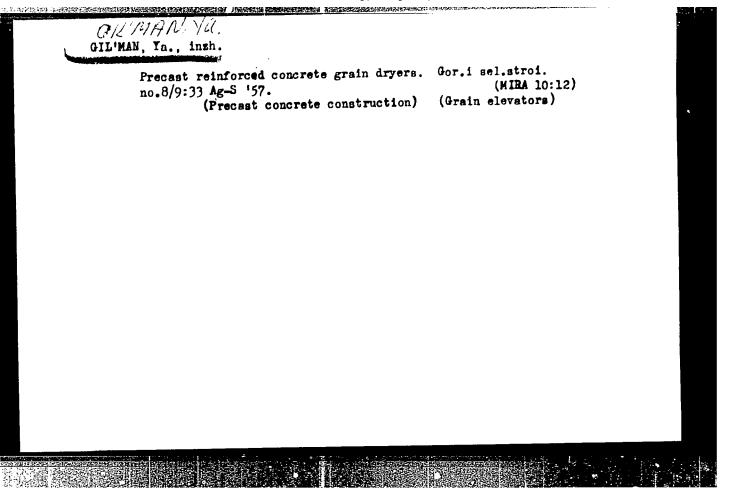
Zr comprises the electrochemical formation of an oxide on the metal surface with subsequent solution of the oxide. At potentials above 0.17 v the rate of solution and anodic current increase rapidly resulting in embrittlement and eventual disintegration of Zr electrodes produced by induction melting. Action on arc melted Zr containing 0.02% C is ten times slower. Tests under potenticistatic conditions were found to be more severe than the corrosion tests run at 100°C. The rate of solution of Zr in concentrated HCl is 2 orders higher than in dilute acid. Orig. art. has: 2 figures.

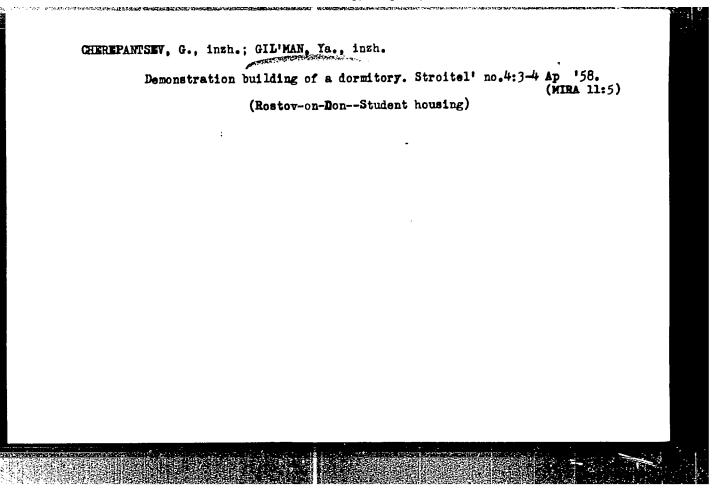
SUB CODE: 07, 13/ SUBM DATE: 03Apr66/ ORIG REF: 003/ OTH REF: 004

Total water









GEL'FREYKH, V., arkhitektor; KORABEL'NIKOV, A., arkhitektor; GOLUBOVSKIY, L., arkhitektor; GIL'MAN, Ya., inzh.

Design of an apartment house with rolled reinforced concrete components executed by the Institute for the Design and Planning of Housing and Civil Construction in the City of Moscow. Zhil. stroi. no.4/5:38-42 '58. (MIRA 12:6)

(Apartment houses)
(Architecture-Designs and plans)

18 826W 1327 1121

26205 S/194/61/000/005/027/078 D201/D303

.JTHOR:

Gil man Yalb

TITLE:

Electric simulation of frames with offset joints taking into consideration the elastic fixing-in of

struts

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1961, 34, abstract 5 B246 (Tr. 1-y mezhvuz nauchno-tekhn. konferentsii po elektr. modelirovaniyu zadach stroit. mekhan., soprotivleniya materialov i teorii uprugosti, B.m. Novocherk. politekhn.

in-t, 1960, 120-129)

TEXT: The possibility is considered of using the electric analogue 3/1/1/2-1 (EMMS-1) for designing flat frames with offset joints and taking into consideration the effect of yielding of the base on the stresses resulting in the frame. It is emphasized that use of electric analogues reduces by many times the process of determining

Card 1/2

28205 \$/194/61/000/005/027/078 D201/D303

Electric simulation...

stresses and obviates complicated calculations. When designing the analogue it is easy to take into consideration the effect of yielding of the base on bending moments within the frame. The discrepancies between the analytical and analogue results of calculations is about 5% which shows the accuracy and effectiveness of the method discussed. 10 figures. 8 references. / Abstracter's note: Complete translation

于

Card 2/2

GIL MAN, Ya.D.

Preparing the foundation of a large-panel building on sagging soil. Osn., fund. i mekh. grun. 3 no.3:25-26 '61.

(Soil stabilization) (Foundations)

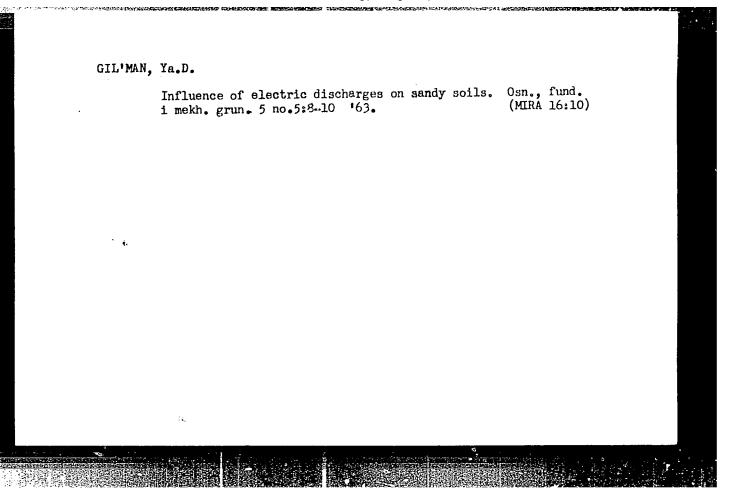
LOMIZE, G.M., doktor tekhn.nauk, prof.; GIL'MAN, Ya.D., inzh.

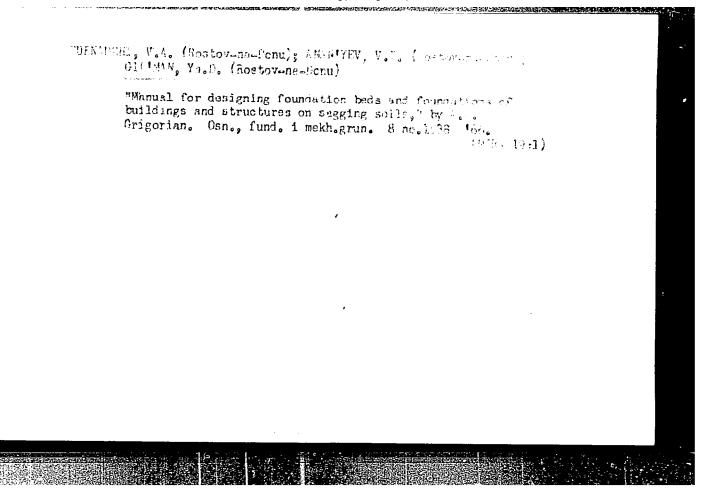
Electric spark method of compacting soil. Gidr. stroi. 32
no.6:42 Je '62. (MIRA 15:6)

(Soil stabilization)

LOMIZE, G.N., prof., doktor takhn. nauk; GIL'MAN, Ya.D., inzh.

Gompacting soils by electric discharges. Trudy Giprevodkhoza no.22:155-162 '63. (MIRA 17:8)





YEGORSHIN, V.P., prof.; GIL'MAN, Ye.A., red.; VOZHESENSKIY, A.D., tekhn.red.

[Theoretical mechanics; test assignments 1-4 for correspondence students in Course 2 with engineering majors in agricultural colleges] Teoreticheskaia mekhanika; kontrol'nye sadaniia 1-4 dlia studentov-saochnikov II kursa inshenernykh spetsial'nostei sel'skokhoziaistvennykh vusov. [Version ?] Variant ?. Sostavil V.P.Egorshin. Moskva. 1958. 9 p. (MIRA 12:3)

1. Vsesoyusnyy sel'skokhosyaystvennyy institut saochnogo obrasovaniya.
(Mechanics--Problems, exercises, etc.)

YEGORSHIN, V.P., prof.; GIL'MAN, Ye.A., red.; VOZNESENSKIY, A.D., tekhn.red.

[Theoretical mechanics; test assignments 1-4 for correspondence students in course 2 with engineering majors in agricultural colleges] Teoreticheskaia mekhanika; kontrol'nye zadaniia 1-4 dlia studentov-saochnikov II kursa inzhenernykh spetsial'nostei sel'skokhosiaiastvennykh vusov. [Version 3.] Variant 3. Sostavil V.P.Egorshin. Moskva, 1958. 10 p. (MIRA 12:3)

1. Vsesoyusnyy sel'skokhosyaystvennyy institut zaochnogo obrasovaniya.

(Mechanics--Problems, exercises, etc.)

ANDRIANOV, V.N., prof.; DRUZHININA, N.A., assistent; MISHARINA, Ye.A., kand.tekhn.neuk; NIKONOV, L.V., dotsent; SHPRINK, B.E., prof., retsenzent; GLEBOVICH, A.A., kand.tekhn.neuk; GIL'MAN, Ye.A., red.; VOZNESENSKIY, A.D., tekhn.red.

[Electric machines: instructions and assignments for students specializing in the electrification of agriculture] Elektricheskie mashiny; metodicheskie ukazaniia i kontrol'nye zadaniia dlia studentov spetsial'nosti "elektrifikatsiia sel'skokhoziastvennogo proizvodstva." Pod red. V.N.Andrianova i A.A.Glebovicha. Moskva. Mosk. in-t mekhanizatsii i elektrifikatsii sel'.khoz.. 1958. 56 p. (MIRA 12:2)

(Electric machinery)

ZHURAVEL', I.V., dotsent; FLEKSER, Ya.N., doktor tekhn.nauk, red.; GIL'MAN, Ya.A., red.; VOZNESENSKIY, A.D., tekhn.red.

[Hydraulics; control lessons for correspondence students in engineering faculties majoring in irrigation and drainage] Gidravlika; kontrol'nye zaniatiia dlia studentov-zaochnikov gidromeliorativnoi spetsial'nosti inshenernogo fakul'teta.

Balashikha, 1959. 20 p. (MIRA 14:12)

1. Balashikha, Vsesoyusnyy sel'skokhosyaystvennyy institut saochnogo obrasovaniya. (Hydraulics)

TOMILIN, A.G., prof.; GIL'MAN, Ye.A., red.

[System of the animal world (characteristics of basic groups)]

Sistema zhivotnogo mira (kharakteristika osnovnykh grupp); uchebnoe posobie dlia studentov zootekhnicheskogo i agronomicheskogo fakul'tetov. Moskva, Vses.sel'khoz.in-t zaochnogo obrazovaniia, 1962. 34 p.

(Zoology)

(Zoology)

Qualified personnel for automatically controlled machinery. Frof.tekh. obr. 20 no.4;28-29 Ap '63. (MIRA 16:5) 1. Direktor uchebno-kursovogo kombinata neftepromyalovogo upravleniya "Oktyabr'skneft", Bashkirskaya ASSR. (Fetroleum workers--Education and training)

ANISHOV, Nikolay Gerasimovich; GTI MANOV, Gilemdar Rizvanovich; STRATIYEV, Valentin Ivanovich; GST MANAYA, G.A., red.

[Frequency-type remote control system for oil fields]

Chastotnaia sistema telemekhanizatsii neftepromyslov. Ufa, Bashkirskoe knizhnoe izd-vo, 1962. 83 p. (MIRA 17:7)

GIL'MANOV, G.R.; YURCHENKO, V.I.; SANNIKOV, A.V.

Determining the pressure on the intake of an electric centrifugal sinking pump by means of a frequency transducer. Nefteprom. delo no.9:26-29 165. (MIRA 18:10)

1. Nauchno-issledovatel'skaya laboratoriya no avtomatike i telemekhanike neftepromyslovogo upravleniya "Oktyabr'skneft!".

GIL'MANOV, G.R.

Means for reducing oil and gas losses in fields of the Petroleum Production Administration of the Association of the October Petroleum Industry. Nefteprom.delo no.10: 27-31 65. (MIRA 19:1)

Neftepromyslovoye upravleniye "Oktyabrisknefti".

VALIULLIN, A.V.; <u>dil'Manov, I.G.</u>; KHASANOV, Kh.Kh.; KOROL'CHUKA, V.M., red.; LODVIKOVA, A.S., red. izd-va; NABIULLINA, R.S., tekhn. red.

[Fruit culture of the Tatar A.S.S.R.] Sadovodstvo Tatarskoi ASSSR. Kazan', Tatarskoe knizhnoe izd-vo, 1960. 279 p. (MIRA 14:9)

(Tatar A.S.S.R.—Fruit culture)

YAKOVLEVA, V.I.; KRETOVICH, V.L.; GIL'MANOV, M.K.

Localization of glutamate dehydrogenase in corn roots. Biokhimiia 29 no.3:463-469 My-Je '64. (MIRA 18:4)

1. Institut biokhimii imeni Bakha AN SSSR, Moskva.

YAKOVLEVA, V.I.; KRETOVICH, V.L.; GIL'MANOV, M.K.

Glutamic dehydrogenase of corn roots. Biokhimia 29 nc.5: 896-904 Jl-Ag '64. (MIRA 18:11)

1. Institut biokhimii imeni Bakha AN SSSR, Moskva.

GIL'MANOVA, G.A. Surplus callus formation following femoral fracture. Med.zhur. Uzb. no.ll:68-70 N '60; (MIRA 14:5) 1. Iz Uzbekskogo nauchno-issledovatel'skogo instituta travmatologli i ortopedii (direktor - A.Sh.Shakirov). (FEMUR-FRACTURE)

GIL MAMOVA, G. Kh., BOYKO, V.A., LAPSHINA, G. H.

"The importance of gamasidee in the maintenance of a focus of tickborne encephalitis." Page 67

Desystoye soveshchaniye po parazitlogicheskim problemam i prirodnoochagovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

GILIMANOVA, G. KH., ECYEO, V. A., STEFANOV, K. D., LAFSHIN, G. N., GUBAIDULLI, YU. SH.

"The study of the natural foci of tickborne encephailtic in the TASSR". Page 69

Desystoye soveshchaniye po parazitlobicheskim problemam i prirodnoochegovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Parasitlolgical Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

GILIMATOYA, G. Kh.; EOYKO, V.A.; LAPSHHIA, G....

Participation of Gamasidae mitos in the signal tion of tickborne encephalitis virus in the natural foct of the Tatar A.S.S.R. Med. paraz. i paraz. bol. 33 no.2:157-161 km-Ap 164 (Main 18:1)

1. Kazanskiy nauchno-issledovatel¹skiy institut epidemiologii, mikrobiologii i gigiyeny (direktor 1. Ye. Alatyrtseva).

GUMEROVA, M.Kh.; ARISTOVA, T.V.; GIL'MANOVA, R.G.; L'VOV, F.V.; BUKCHANTAYEVA, M.S.; MUKHAMETSHINA, M.A.; GAYMULLINA, N.M.; KHRAMOVA, N.P.; KOBRANOVA, I.N., red.; LABUDIN, N.T., red.; IBROGIMOVA, Z.A., tekhn.red.

[Forty years of the Tatar A.S.S.R.; statistical collection]
Tatarakaia ASSR ma 40 let; statisticheskii sbornik. Kazan',
Tatarakoe knizhnoe izd-vo, 1960. 171 p. (MIRA 14:3)

1. Tatar A.S.S.R. Statisticheskoye upravleniye. 2. Nachal'nik Statisticheskogo upravleniya Tatarskoy ASSR (for Kobranova). (Tatar A.S.S.R.--Statistics)

	1 mar Technological 2 mar Technological 2 mar Technological 2 mar Technological 3 mar Technological 4 mar Technological 5 mar Tec	defea, estentiate, as exempting in- mailtainest of Chemical Stances stration in given in deal mainty syllochemical mad, enhantial mad, enhantial made, et given		
MANSHING G. G.	Fight 1 NOW EXPLOYMENTS For the control of the Control of the Control For the control of the Control For the control of the Control For th	a beek is infected for industrial chamists, technologial research students in applied chamistry. ***Section contains reports by family ambiers of the alass communities the Thiny part of the high and file alass communities the Thiny family. ** Section is a Section in Preference (Section Section in Preference (Section Section	aCommical (Cont.) a.6. and Th. M. Kargin, The Influence of Ory activities Beduction of Lead in a Mercury-Drop alignianary raport) and Students 2.0. Seeina and I.G. Pilimnoov by of Directly Determining Sodium is the Present a.S., and K.B. Mochalov. The Conversion of Main a.m. Electric Ary Dictarge Tw. I. Analysis of Thuring Baths and H.V. Kollov, Density and Tiscosity of the man H.V. Kollov, Density and Tiscosity of the and H.V. Malovities and Tiscosity of the and H.V	
61 L' Mh	Mineral Property (Property of Property of	Vacadary, and Vacadary, and COTTAGE. The county of the tracks of the offer offer of the offer offer of the offer offer of the offer	10. 611. mandle for the control of t	

10008

S/020/60/132/01/35/064 B011/B126

5.2400(A)

Mochalov, K. N., Gil'manshin, G. G.

a A

TITLE:

AUTHORS:

لأخت للماء

The Polarographic Behavior of Sodium-, Potassium-, and Lithium

Boron Hydrides

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 1, pp. 134-137

TEXT: The views on the theme in the title are directly contradictory (Refs. 6,7) in the few (2) relevant works. In their experiments the authors used commercial (~80%) and purified (98%) boron hydrides. They used the micropolarograph of Heyrovský, model M-102 with a dropping mercury electrode. For NaBH4 in NaOH they have found a single wave, namely that of the ion BH4. Its nature was determined by further experiments (Fig. 1, Table 1). The position and character of these waves remain practically unchanged through variations in the concentration of boron hydride and through changes in the composition of the background. This result disproves the data of R. L. Pecsok (Ref. 6). The authors studied the dependence of the height of the boron hydride wave on the concentration of BH4 ions. The dependence is linear between 10-2 and 10-1 moles/1. The limiting current here is no complete diffusion current. The metallic boron hydrides

Card 1/3

The Polarographic Behavior of Sodium-, Potassium-, and Lithium Boron Hydrides

80061 \$/020/60/132/01/35/064 B011/B126

decompose relatively quickly in aqueous, especially in acid solutions, so that the polarographing is made very difficult. Therefore, the solutions used were prepared with the use of the relevant alkalis and alkaline borate buffer mixtures. From this it was established that, for the same concentration, the wave height is highly dependent on the pH in the solution. With a pH above 12.5 the boron hydrides are relatively stable, but the wave was practically missing altogether. Thus, it follows that in reality the wave does not belong to the BH4 ion, but to one of its hydrolysis products. These occur in several stages in one of which diborane is given off under certain conditions. However, diborane can react with alkalis and form the so-called hypoborates (see scheme). Gaseous diborane was passed through concentrated KOH-, NaOH-, and LiOH solutions when cooled. The resulting hypoborate solutions showed the same wave with $E_1/2$ = -0.6 v. The dilution of these solutions led to a proportional decrease in wave height. When the solution is left standing, the height of the "hypoborate" wave, exactly as the "boron hydride" wave, decreases according to an equation of the first order (Ref. 8). When the solutions are boiled and strongly acidified, the wave disappears after the destruction of the hypoborates. Thus, the "boron hydride" wave is basically a "hypoborate" wave. It is difficult to say to which of the 3 hypoborates the wave belongs. However, it cannot belong to the BH (OH)

card 2/3

80061

The Polarographic Behavior of Sodium-, Potassium-, and Lithium Boron Hydrides

S/020/60/132/01/35/064 B011/B126

ion. It is more likely that the BH(OH) ion is responsible for the wave. The electrodic reaction which the said wave causes can obviously not (contrary to Pecsok) be brought about by oxidation of the BH4 ions, but must be due to the oxidation of the hypoborate ions (see scheme). Of the two schemes set out, the second is more likely. The following are mentioned: D. Il'kovič, A. F. Zhigach, V. I. Mikheyeva, V. Yu. Surs, Kh. V. Shifrin, A. A. Bogonostsev, O. I. Rusetskiy, and T. N. Dymova. There are I rigure, 1 table, and 14 references,

ASSOCIATION: Institut obshchey i neorganicheskoy khimii Akademii nauk SSSR (Institute of General and Inorganic Chemistry of the Academy of Sciences, USSR)

PRESENTED: December 26, 1959, by I. I. Chernyayev, Academician

SUBMITTED: December 15, 1959

Card 3/3

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-

CIA-RDP86-00513R00051671

37638 \$/076/62/036/005/013/013 B101/B110

11.1240

AUTHORS: Mochalov, K. N., and Gil'manshin, G. G.

TITLE: Polarographic study of alkali-metal boron hydrides

PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 5, 1962, 1089-1094

TEXT: With a view to elucidating the processes that occur in the hydrolysis of NaBH 4, KBH 4, LiBH 4, and C_5 BH 4 solutions of these boron hydrides were examined polarographically in aqueous solutions by using a recording polarograph (type 7-77-46, "orion", Hungary), a mercury dropping electrode, and a calomel reference electrode. The boron hydrides were prevented from decomposing by being dissolved respectively in 0.2 M NaOH, KOH, and LiOH. Investigation of the polarization within the range +0.2 to -2.0 v at room temperature showed that, unlike what had been found by R. L. Pecsok (see below), the three boron hydrides gave rise to the same wave, namely $E_{1/2} = -0.65$ v. Impurities (e.g., sodium alcoholates) did not affect $E_{1/2}$. As a result of hydrolysis of the boron hydride, the wave amplitude decreased with time. This process can be accelerated by Card 1/3

X

S/076/62/036/005/013/013 B101/B110

Polarographic study of alkali- ...

acidification, heating, or catalysis. Different backgrounds did not affect the wave. The wave $E_{1/2} = +0.105 - 0.013$ pH found by Pecsok is attributed to the anodic dissolution of Hg in an alkaline medium. Results: (a) Change in pH and temperature (15-35°C) do not affect the wave potential. The wave amplitude of NaBH, and KBH, in the range of 1.10^{-3} to 1.10^{-4} moles/l is a linear function of the concentration of boron hydride. (b) The wave amplitude decreases with increasing pH. At pH > 12.5 - i.e., if no hydrolysis takes place at all - no further waves will appear. Polarographic analysis of CaH2 and B2H6 showed no wave with the first compound, but $E_{1/2} = -0.65$ v when $B_{2}H_{6}$ was bubbled through NaOH or KOH. From this it is concluded that the wave is due to the resulting hypoborates. Polarographic results obtained from stepwise hydrolyzed LiBH4 and from NaBH(OCH3)3 indicate that the wave is not produced by the BH_{A}^{-} ion but by the $\mathrm{BH}(\mathrm{OH})_{3}^{-}$ ion. Analysis of the polarographic kinetic curves for NaBH $_4$ and KBH $_4$ confirmed that the hydrolysis of these compounds $\sqrt{2}$ followed the theory of the kinetics of consecutive processes. There are Card 2/3

S/076/62/036/C05/013/013 B101/B110

Polarographic study of alkali- ...

4 figures and 2 tables. The most important English-language reference is: R. L. Pecsok, J. Amer. Chem. Soc., 75, 2862, 1953.

ASSOCIATION: K

Kazanskiy khimiko-tekhnologicheskiy institut im. S. M.

Kirova (Kazan' Institute of Chemical Technology imeni S. M.

Kirov)

SUBMITTED:

August 19, 1961

Card 3/3

542.938 : 541.44 : 546.27

L 59535-65 EWP(e)/EWT(m)/EPF(c)/EWP(i)/EWG(m)/EWP(j)/T/EWF(t)/EWP(h) Pc-4/PT-4

IJF(c) JD/NN/RM

ACCESSION NR: AP5016815 UR/0195/65/006/003/0541/0544

AUTHOR: Mochalov, K. N.; Khain, V. S.; Gil'manshin, G. G.

TITLE: Kinetic investigation of the intermediate stages of BH4-ion hydrolysis

SOURCE: Kinetika i kataliz, v. 6, no. 3, 1965, 541-544
TOPIC TAGS: hydrolysis, sodium borohydride, kinetics

ABSTRACT: Kinetics of the elementary steps of the consecutive reaction sequence of the hydrolysis of sodium borohydride was studied at pH of 3.57 to 13.38 and at 15°, 25°, and 35 to 0.1°C. The ionic strength of the buffer solutions used was 0.4 at 25°C. The object of this work was to elucidate the mechanism of hydrolysis of borohydrides. Hydrolysis of the most stable intermediate ions [BH30H, BH2(OH)2, and BH(OH)3] was studied separately using alkaline solutions of NaBH30H, NaBH2(OH)2, and NaBH(OH)3. The pH was measured with an accuracy of 0.001 using a banish made pHmeter (Radiometer 72 Emdrupvej, Copenhagen). In the consecutive reaction of hydrolysis of the BH4-ion, the following step is rate limiting: BH4 + RH30H. This rate limiting step is made up of two elementary steps and it initiates according to:

Card 1/3

L 59535-65

ACCESSION NR: AP5016815

BH4+H + [H BH4]. The intermediate ions, BH30H and BH2(OH) $\frac{1}{2}$, are slightly less stable than the BH4-ion. The least stable of the intermediate ions is BH(OH) $\frac{1}{3}$ which hydrolyses about 1000 times faster than BH3CH and BH2(OH) $\frac{1}{2}$. Hydrolysis of NaBH4, NaBH3OH, NaBH2(OH) $\frac{1}{2}$, and NaBH(OH) $\frac{1}{3}$ is a first order reaction. The values of the first order rate constants and the times for half-conversion at given pH and temperature deviated 5 to 7% from the respective average values for the series of experiments. At a given temperature the rate of hydrolysis is inversely proportional to pH. The first order rate constant for all elementary hydrolysis steps is proportional to the activity of the hydrogen ions a_H . The overall kinetic equation of NaBH4 hydrolysis is:

 $-\frac{d\mathbf{C}}{dt} = K_2 \cdot \mathbf{C} \cdot a_{\mathbf{H}}^+$

where: C is concentration of NaBH4, at time t, $a_{\rm H}+$ is activity of the hydrogen ions, and K_2 is the second order rate constant. K_2 is dependent only upon reaction temperature. The thermal coefficient of the rate constant in the 15° to 35°C range for NaBH4, NaBH30H, NaBH2(OH)2 and NaBH(OH)3 is 2.02, 1.85, 1.83 and 1.83 respectively. The corresponding energies of activation are 12.8, 11.2, 11.0, and 11.0 kcal/mol. Dependence of the individual rates of hydrolysis K_T upon temperature (T)

Card 2/3

L 59535-65 ACCESSION NR: AP5016815 and dependence of the respective half-conversion times $(\tau \frac{1}{2})$ upon temperature (T)and pH are: $\ln K_T = -\frac{6440}{T} + 40.20;$ Ig $\tau_{1/c} = pH - (0.034T - 1.92)$ NaBH. NaBH₂O H $\ln K_T = -\frac{5037}{T} + 37,88$; $\lg \tau_{ij} = pH - (0.027T + 0.357)$ NaBH₂ (OH)₂ In $K_T = -\frac{5544}{T} + 37.63$; Ig $\tau_{1/2} = pH - (0.027T + 0.384)$ NaBH (OH)₂ In $K_T = -\frac{5444}{T} + 37.63$; Ig $\tau_{1/2} = pH - (0.024T + 4.00)$. Replacement of sodium by Li, K, or Fe affects neither the overall rate nor the rates of the individual steps of hydrolysis of the respective hydrides and hydroxyhydrides. Orig. art. has: 1 table, 2 figures, 11 formulas. ASSOCIATION: Kazanskiy khimiko-tekhnologicheskiy institut im. S. M. Kirova (Kazan Chemical Technological Institute) SUB CODE: GC ENCL: 90 SUBMITTED: 18May64 OTHER: 007 NO REF SOV: 005

L 57778-65 EFF(c)/EPR/EWA(h)/EWP(j)/EWT(m) Pc-4/Pr-4/Ps-4 RPL
ACCESSION NR: AP5014855 RM/WW/JW UR/0020/65/162/003/0613/0616
AUTHOR: Mochalov, K.N.; Khain, V.S.; Gil'manshin, G.G. 34

TITLE: Generalized mechanism of hydrolysis of the borohydride ion and diborane

SOURCE: AN SSSR. Doklady, v. 162, no. 3, 1965, 613-616

TOPIC TAGS: diborane hydrolysis, borohydride hydrolysis, borohydride ion, hydrolysis kinetics

ABSTRACT: On the basis of tabulated data, the authors have formulated a single, general mechanism encompasing the hydrolysis of the borohydride ion and diborane in neutral, acid, and alkaline media. In order to determine the relative rates of the various successive reactions of this mechanism, a study was made of the kinetics of the conversions $BH_4 \rightarrow BH_3OH^-$, $BH_3OH^- \rightarrow BH_2(OH)_2^-$, and $BH_2(OH)_2^- \rightarrow BH(OH)_3$. It was noted that the rate of reaction of potassium ferricyanide with a solution of borohydride is determined by the rate of hydrolysis of the latter, and that this rate coincides with the rate of conversion of $BH_4^- \rightarrow BH_3OH^-$ (via the intermediate complex ion. Hence, the conversion $BH_4^- \rightarrow BH_3OH^-$ (via the intermediate complex $H^+BH_4^-$) is the rate-determining step of the consecutive reaction of borohydride hydrolysis. The conversion $BH_2(OH)_2^- \rightarrow BH(OH)_3^-$ is the first step in the hydrolysis of $BH_2(OH)_2^-$ to the borate; the second stage of this process, card 1/2

	L 57778-65 ACCESSION NR: AP5014855		ara que a pour el como	า การกระบรมสุดสุดสุดสุดสุดสุดสุดสุดสุดสุดสุดสุดสุดส	
	BH(OH)3 ⁻ 7B(OH)4 ⁻ , is apprehance an aqueous solution of the components. The concentration of the system was determined by the system was determined by the concentration of the system of the concentration of the conce	codmately 500 time orohydride constitu- tions of the latter various p- mined at various p- remain low (0.03-0 f the BH ₂ (OH) 2 ion	vere found, and the pints in time; the c 0.05 mole%) during n attains 25.7 mole	oncentrations of the the entire process,	nta
	of the consecutive reactions	BH ₂ OH	BH ₁ (OH) ₁ $k_1 = 10.06 \cdot 10^{7}$ $k_1' = 10.06 \cdot 10^{7}$	BH(OH) - 2, = 5.69 (0 B(OH	
÷	Orig. art. has: 3 tables su	nd 8 formulas.			`.
1	ASSOCIATION: Kazanskiy (Kazan' Chemical Engineer	khimiko-tekhnologi ing Institute)	cheskiy institut im	, S. M. Kirova	
	SUBMITTED: 06Nov64	ENCL: 00	SUB CODE:	GC	
1	\NO REF 80V: 007	OTHER: 011			

163.

SATTAROV, M.M.; GIL MANSHIN, I.G. BANDELANDS STATEMENT Selection of wells for the carrying out of water-exclusion operations. Izv. vys. ucheb. zav.; neft' i gaz 6 no.7:43-47 (MIRA 17:8)

1. Ufimskiy neftyanoy institut i neftepromyslovoye upravleniye "Arlanneft".

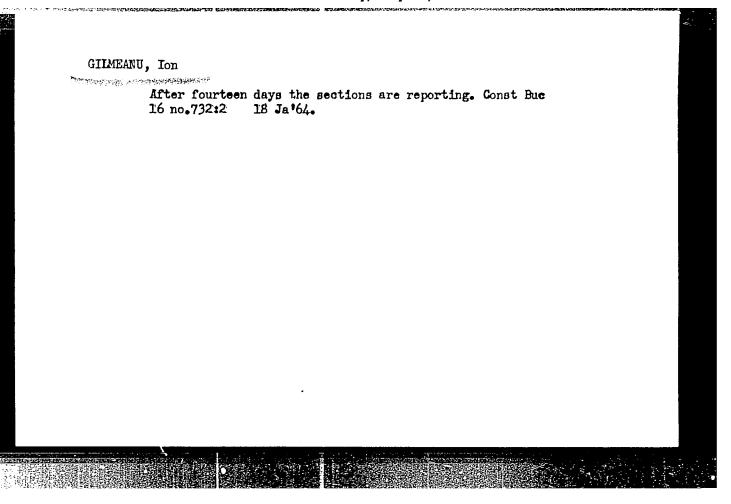
IMANAYEV, N.G.; GOMBINER, B.Ya.; KRAVCHENKO, 1.1.; BLAZHEVICH, V.A.; MARKOV, V.F.; SATTAROV, M.M.; GIL'MANCHIN, 1.G.; ACHIROV, K.B.; BOBELYUK, V.F.; ROMANYUK, F.I.

SELECTION OF THE ACTION OF THE PROPERTY OF THE

Comments on the article by M.L. Surguchev "Exclusion of reservoir waters". Neft.khoz., No.11, 1962. Neft.khoz. 41 no.8:38-57 Ag '63.

Present status of and prospects for the construction of steel tanks in the U.S.S.R. Ibid.:58-62

1. Neftepromyslovoye upravleniye Tuymazaneft! (for Im caver, Gombiner). 2. Ufimskiy neftyanoy nauchno-irsledovatel'skiy instit ' (for Kravchenko, Blazherich). 3. Neftepromyslovoye upravleniye Chernomorneft! (for Markov). 4. Neftepromyslovoye upravleniye Arlanneft! (for Sattarov, Gil'manshin). 5. Gosudar-stvennyy institut po proyektirovanivu i issledovatel'skim rabotam neftedobyvayushchey promyshlennosti vostochnykh rayonov strany (for Ashirov). 6. Vsesoyuznyy neftegazovyy nauchnosissledovatel'skiv institut (for Bobelyuk, Romanyuk).



TROYANKIN, Yu.V., kand. tekhn. nauk; CIMMEL'FARB, M.L., dots., red.

[Methods for the design of a copper-melting reverberatory furnace] Metodika rascheta medeplavil'noi otrazhatel'noi pechi. Pod red. M.L.Gimmel'farba. Moskva, Mosk. energ. in-t, 1963.

30 p. (MIRA 17:4)

GORDON, M.K.; GIL'MOVSKAYA, M.I.

Clinical aspects of an atypical course in Addison-Biermer disease. Zdrav. Bel. 7 no. 4:43-45 Ap '61. (MIRA 14:4)

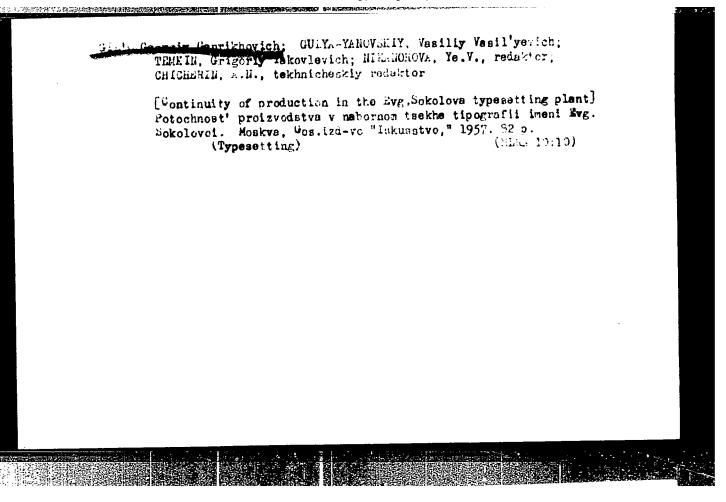
l. Iz terapevticheskogo otdeleniya (M.K. Gordon) oblbol nitsy v g. Vileyka (glavnyy vrach A.S. Romashko). Wauchnyy rukovoditel raboty - professor G.Kh. Davgyallo. (ANEMIA)

GILIO. Georgiy Genrikhovich: MIL'CHIB, A.E., redektor; VOLYNTSEVA,
V.A., tekhnicheskiy redektor.

[Leboratory work in the technology of typesetting by hand and
machine] Leboratornye raboty po tekhnologii ruchnogo i mashinnogo nabors. Moskva, Gos. izd-vo "Iskuestvo," 1954. 110 p.

(Typesetting)

(MLRA 7:12)



"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051671

ACC NR: AT7000188

This is the second of the seco

SOURCE CODE: UR/0000/64/000/000/0162/0170

AUTHOR: Volodarskiy, R. F.; Gilod, D. A.; Demidova, M. A.

ORG: none

TITLE: Sketch map of the present-day surface of the folded basement of the Ciscaucasus from geophysical data

SOURCE: Moscow. Universitet. Kafedra geofizicheskikh metodov issledovaniya zemnoy kory. Geofizicheskiye issledovaniya (Geophysical research), no. 1. Moscow, Izd-vo Mosk. univ., 1964, 162-170

TOPIC TAGS: Yearth crust, gravity survey, magnetic survey/Russian platform, Ciscaucasus

ABSTRACT: Comprehensive analysis of geologic, geophysical, and borehole materials, as well as analysis of gravity and magnetic maps recomputed for different levels of the upper half space, have resulted in a tectonic regionalization of the Ciscaucasus and the solution of problems dealing with the geologic structure of the area. The article contains maps of the tectonic zoning of the folded basement of the Ciscaucasus and the southern regions of the Russian platform and surface of the Paleozoic basement of the Ciscaucasus are given. Orig. art. has: 2 figures.

SUB CODE: 08/ SUBM DATE: 05Nov64/ ORIG REF:

Card 1/1

MARAPETOV, K.A.; GILOVYAN, V.A.

Investigation of a reduction in well-bottom permeability based on the pressure buildup curves. Nefterom. dolo no.12.3-8 163.

1. TSekh nauchno-issledovatel'skikh i postavodstvennych cabot neftepromyelovogo upravlentya "Ordzbonkt-dzeneft".

Warder Bridge Control of the Control

MAMEDOV, A.M.; BYCHKOVA, T.V.; GILOVYAN, V.A.

Determining the optimal disbursement of a demulsifier from the data of an investigation of compressor wells. Nefteprom. delo no.10:37-40 '64. (MIRA 17:12)

1. Neftepromyslovoye upravleniye "Ordzhonikidzeneft!".

GILOVYAN, V.A.; SHALABANCV, A.S.

New method for the automatic control of the level of the oil-water interface in the Lobkovo horizontal sedimentation tanks. Nefteprom.

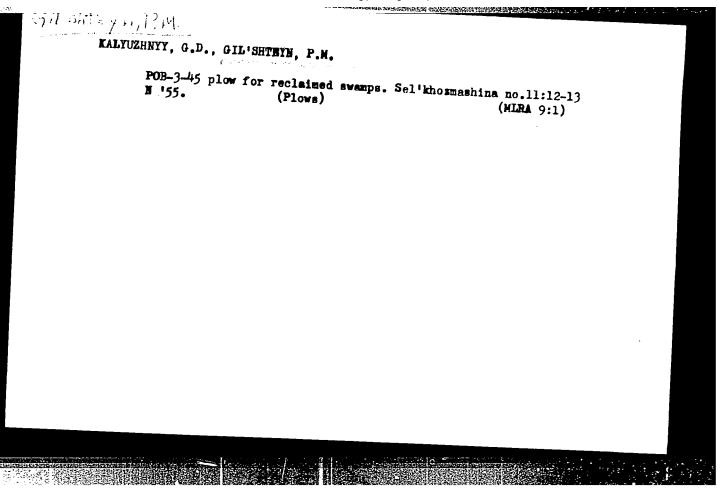
[MIRA 18:3]

1. TSekh nauchno-issledovatel skikh i proizvodstvennykh rabot neftepromyslovogo upravleniya "Ordzhonikidzeneft!".

Plows

New plows PKB-56P and PKB-2-54 for brush and swamp ground. Sel'khozmashina No. 9, 1952

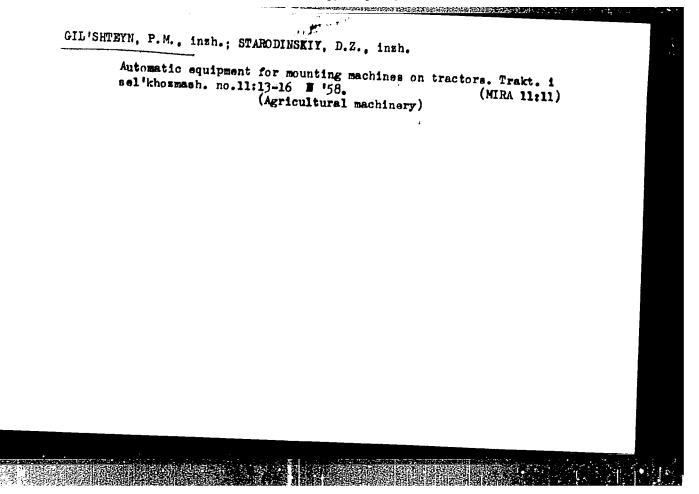
9. Monthly List of Russian Accessions, Library of Congress, ______ December 195%, 2Uncl.



GIL'SHTEYN, P.M., inzhener.; STARODINSKIY, D.Z., inzhener.

New brush and bog plows. Sel'khosmashina no.4:5-6 Ap '57. (MIRA 10:4)

(Plows)



GIL'SHTEYN, P.M., insh.; STARODINSKIY, D.Z., inzh.

The FDM-2-60 mounted brush-breaker and bog plow. Trakt. 1 sel'-khosmash. no,1:38-39 Ja '59. (NIHA 12:1)

(Plows)

Brush-broaker plow. Trakt.i sel-thearnsh. no.7:33-34 Jl 159.

1. Spetsiel noye konstrukturekeye byure zaveda izeni Oktyebriskev (Plows)

(Plows)

GIL'SHTEYN, P.M., inzh.; STARODINSKIY, D.Z., inzh.

Mounted scarifier for cultivating soil before deep plowing. Trakt.i sel'khozmash. no.10:30 0 '59.

(MIRA 13:2)

1. Spetsial'noye konstruktorskoye byuro zavoda im. Oktyabr'skoy revolyutsii.

(Agricultural machinery)

GIL'SHTEYN, P.M., [Hil'shtein, P.M.]; STARODINSKIY, D.A. [Starodyns'kyi, D.Z.], insh.

Mounted two-bottom brush-breaker plow. Mekh.sil'.hosp. 10 no.12:24-25 D '59. (MIRA 13:3)

Mounted cultivator and scarifier for stony soils. Trakt. i sel'khozmash. 30 no.8:37 Ag '60. (MIRA 13:8)

GIL'SHTETN, P.M., inzh.; BIOSHTEYN, E.V., inzh.

Mounted mulch-culture cultivator with subsurface sweeps. Trakt.

1 sel'khozmash. 30 no.11:32-33 N '60. (MIRA 13:12)

(Cultivators)

GIL'SHTEYN, P.M. [Hil'shtein, P.M.], inzh.; BLOSHTEYN, Ye.V. [Bloshtein, IE.V.], inzh.

KPL-2-100 cultivator with subsurface sweeps. Mekh. sil'. hosp. 12 no. 5:22-23 My '61.

(MIRA 14:5)

1. Odesskiy zavod im. Oktyabr'skoy revolyutsii.

(Cultivators)

(Plowing)

GIL'SHTEYN, P.M.; STARODINSKIY, D.Z.

Increase in the traction indices of a wheel-type tractor operating with a mounted plow. Trakt.i sel'khozmash. 32 no.9:16-18 S '62.

(MIRA 15:12)

skoy revolyutsii.

(Tractors)

Single-frame plows for brush and swamp lands. Trakt: i sel'khozmash.
31 [1.e.32] no.11:33-34 N '62. (MIRA 15:12)

1. Spetsial'noye konstruktorskoye byuro zavoda imeni Oktyabr'skoy revolyutsii. (Plows)

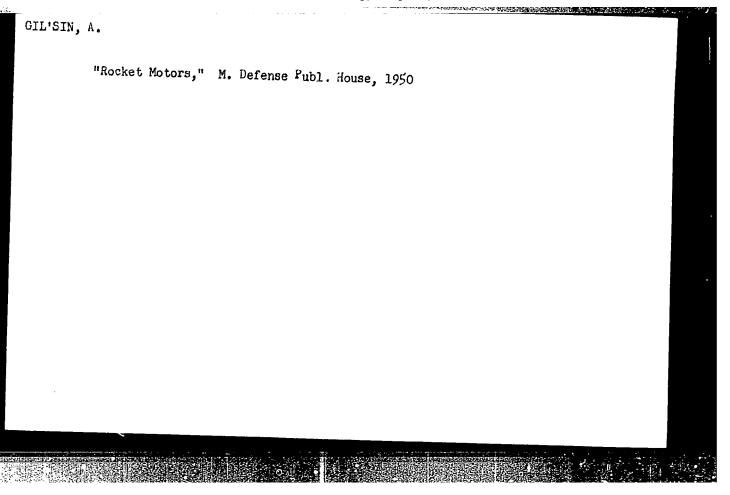
GIL'SHTEYN, P.M.; STARODINSKIY, D.Z.; TSIMMERMAN, M.Z.;

DOGANOVSKIY, M.G., kand. sel'khoz. nauk, retsenzent;

EUD'KO, V.A., inzh., red.

[Tillage machines for special purposes; their design and calculation] Pochwoobrabatyvaiushchie mashiny spetsial'nogo naznacheniia; proektirovanie i raschet. Moskva, Izdvo "Mashinostroenie," 1964. 139 p. (MIRA 17:11)

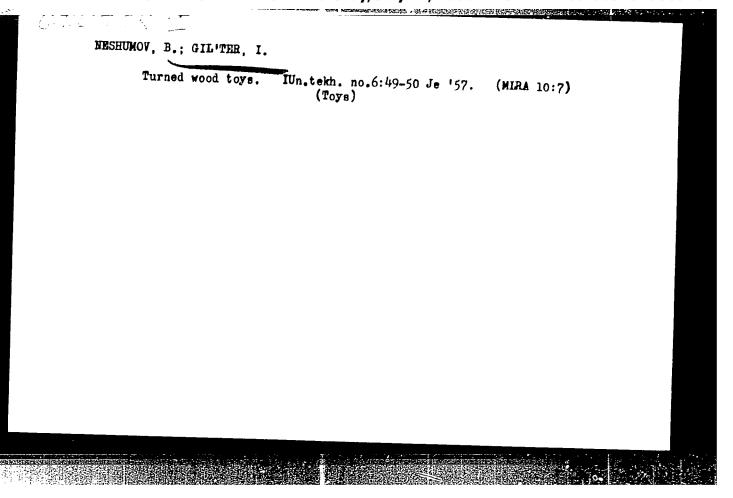
1. Vedushchiy konstruktor Spetsial'nogo konstruktorskogo byuro zavoda sel'skokhozyaystvennogo mashinostroyeniya im. Oktyabr'skoy revolyutsii (for Gil'shteyn, Starodinskiy, TSimmerman).



GILTCO, B.; DIACENKO, P.; EJELIN, A.

Use of radioactive isotopes for determination of damage to machine parts. p. 3. TEHNICA NOUA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor) Bucuresti. Vol. 2, No. 25, Novi 1955.

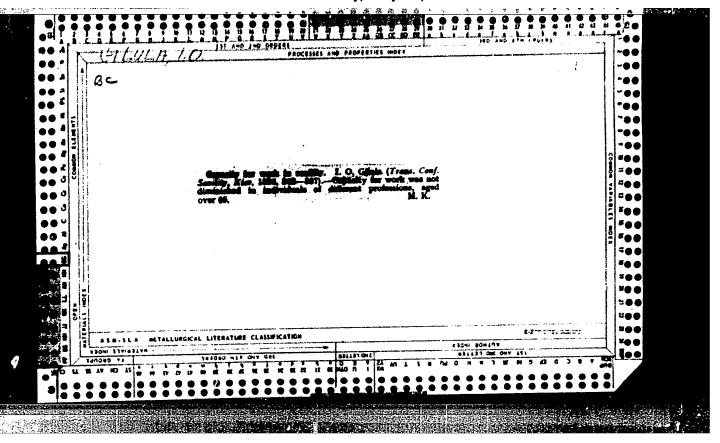
So. East European Accessions List Vol. 5, No. 9 September, 1956

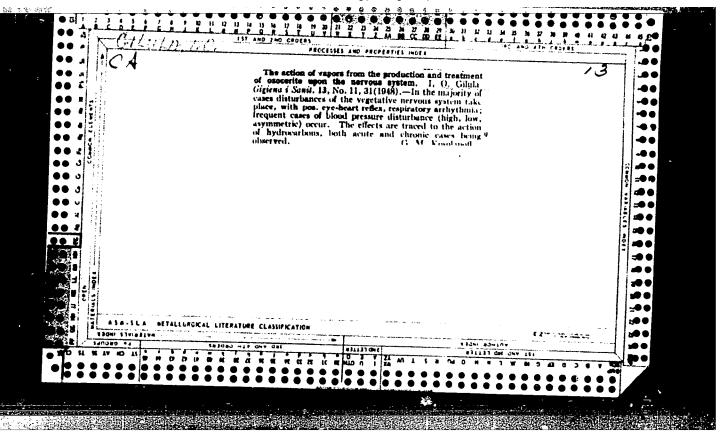


Requirements for dump trucks used in excavation operations.

Avt. transp. 38 no. 5:13-14 My '60. (MIRA 14:2)

(Dump trucks)



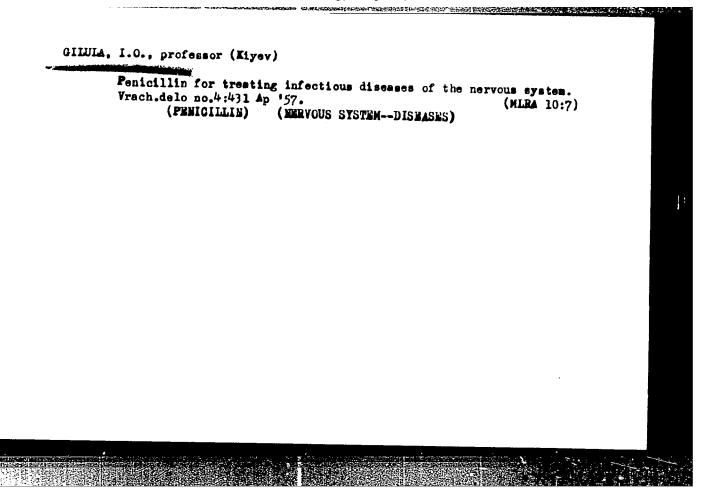


GILULA, I.O.; TSAPENKO, Ye.L.

Cutaneous temperature in lesions of the cerebral cortex.

Zhur.nevr.i psikh. 53 no.11:878-881 M '53. (MLRA 6:12)

1. Kafpdra nervnykh bolesney Kiyevskogo meditsinskogo stomatologicheskogo instituta. (Brain--Disease) (Temperature, Animal and human)

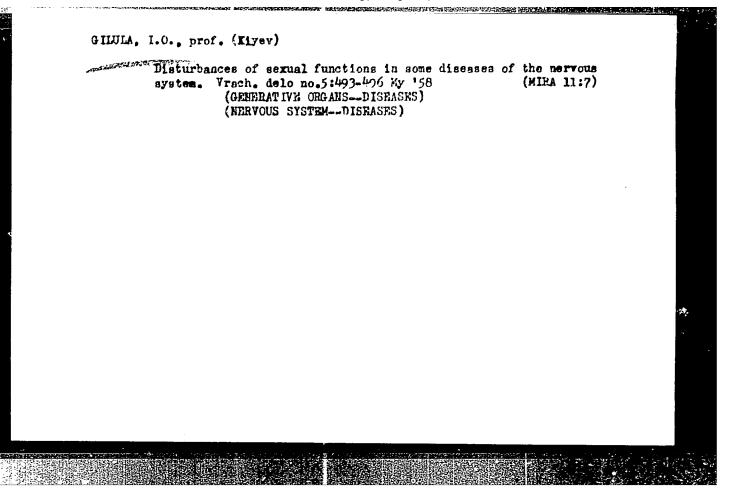


GILULA, I.O., prof. (Kiyev); HOVIK, I.O., prof. (Kiyev); TSAFEHRO,
Ye.L., kand.med.nauk (Kiyev)

Higher nervous activity in patients with paradentosis. Frobl.
stom. 4:7-14 *58.

(MERVOUS SISTEM) (GUMS--DISEASES)

(MIRA 13:6)



"Neuroses of viscersl etiology", by O.R. Kirichins'kii. Reviewed by I.O.
Gilula. Vrachidelo no.9:995-997 S'58 (MIRA 11:10)
(NEUROSES)
(KIRICHINS'KII.O.R.)

TO THE CONTROL OF THE PROPERTY OF THE PROPERTY

GILULA, I.O., prof.

Disability evaluation for persons with vascular diseases of the brain. Vrach.delo no.2:139-143 F '60. (MIRA 13:6)

1. Gorodskaya klinicheskaya bol'nitsa, Kiyev.
(DISABILITY EVALUATION) (BRAIN--DISEASES)

"Problem of brain development and the effect of harmful factors on it." Reviewed by I.O.Gilula. Vrach. delo no.12:151 D '61.

(BRAIN)